

**FILTER BANK AND RECEIVER FOR PROCESSING  
CONTINUOUS PHASE MODULATED SIGNALS**

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**ABSTRACT OF THE DISCLOSURE**

A filter bank (10) and receiver including the filter bank (10) that is designed for processing a baseband signal of a received continuous phase modulated signal  $S(t)$  with an integer modulation index. The filter bank (10) has outputs for providing a plurality of decision variable values ( $d_1, d_2, d_3, d_4$ ) each representing a likelihood value of a symbol, from a group of predefined symbols that are likely to be present in the continuous phase modulated signal  $S(t)$ . The filter bank 10 has filter units (12,14,16,18) each having an impulse response determined by a complex main pulse containing a majority of signal energy of one of the predefined symbols that is likely to be in the continuous phase modulated signal  $S(t)$ .

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